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CLAIMS

Please cancel claim 12 without prejudice or disclaimer as to the subject matter thereof.

1. (currently amended) A system for representing parameter constraints governing values of interrelated operating parameters of an implantable medical device when one or more of the parameters is changed, the system comprising:

a plurality of interrelated operating parameters of an implantable medical device;

a plurality of displays corresponding to said plurality of interrelated operating parameters, having a range of values represented by a dimension in the displays; and

means for maintaining said interrelated operating parameters constraints when one or more of said plurality of displays manifests a change in value.

2. (currently amended) ~~A~~The system according to of claim 1 wherein said plurality of interrelated operating parameters maintain a mathematical relationship with one another.

3. (currently amended) ~~A~~The system according to of claim 1 wherein said interrelated operating parameters define an operationally stable performance envelop for the implantable medical device and wherein upon the operates in a relation that recognizes adjustment of one of said plurality of interrelated operating parameters at least when one other parameter out of said interrelated operating parameters is modified.

4. (currently amended) ~~A~~The system according to of claim 2 wherein ~~said means for maintaining said interrelated parameter~~ a plurality of programmable constraints preserves the relationship by causing said plurality of interrelated

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operating parameters to consistently respond to move in compliance with a charge change in one of said plurality of interrelated operating parameters.

5. (currently amended) The system of claim 1 wherein a change in a constrained parameters value causes at least one other constraining parameter values to charge.

6. (currently amended) A system for adjusting related constraints on a dynamic basis, the system comprising:

a displayable metaphor including a plurality of sliders;

a range display means representing a range of permitted values of said plurality of sliders said range of permitted values corresponding to programmable values of an implantable medical device;

means for constraining said plurality of sliders in relations therewith the range of permitted values; and

said plurality of sliders being representing interrelated operating parameters having dimensional elements extending through said dimensional elements-range of permitted values with each position-dimensional element corresponding to a different permitted value.

7. (currently amended) The system of claim 6 wherein said plurality of sliders constrain one another within a stable performance envelope of said implantable medical device.

8. (currently amended) The system of claim 6 wherein said plurality of sliders operate as a user interface for a programming unit for the implantable medical device.

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9. (currently amended) The system of claim 6 wherein at least one of said plurality of sliders includes an extension to constrain movement of at least two of the plurality of other sliders.

10. (currently amended) A method for representing parameter constraints in related parameters of a medical device, the method comprising:

providing a set of sliders slidable with a range of dimensions, wherein each slider in a set includes an interrelationship with other member of the set of sliders;

imposing a constraint on each of said slider representing said interrelationship;

representing allowing a dynamic movement of said set of sliders to each represent a change in an operational parameter value of an implantable medical device; and

constraining said set of sliders to change in correspondence with any change in one of the other member of said set of sliders.

11. (currently amended) The method of claim 10 wherein said step method of constraining includes maintaining a pre-existing relationship between the operational parameters value in correspondence with said change in one of said set of sliders.

12. (canceled)